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NOTICE OF ALLOWANCE AND FEE(S) DUE

52349 7590 10/09/2009 WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 4/10 East

Washington, DC 20005-1503

EXAMINER

CERULLO, LILIANA P

ART UNIT PAPER NUMBER

2679

DATE MAILED: 10/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/566,156	01/27/2006	Koji Akiyama	2006_0050A	1981	
TITLE OF INVENTION: PLASMA DISPLAY PANEL AGING METHOD					

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/11/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance on herwise in Block 1, by (rders and notification a) specifying a new o	of n	naintenance fees will pondence address; a	ll be n ind/or	nailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRINT CORRESPONDENCE ADDRESS (Sour: Use Block I for any change: of address) 523-49 7590 10099/2009 WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East				Note: A certificate of mailing can only be used for domestic mailings of the Feedy Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing of transmission. Certificate of Mailing or Transmission Lineary Certificate of Mailing or Lineary deposited with the United States of the Mail Stop ISSUE FEET address above, or being facsimal transmitted to the USFITO (271) 227–2888, on the date indicated below				
								Washington, DC
				L				(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	1	ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/566,156 TITLE OF INVENTION	01/27/2006 F: PLASMA DISPLAY F	PANEL AGING METHO	Koji Akiyama D			:	2006_0050A	1981
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE.	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	01/11/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
CERULLO,		2629	345-060000					
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.5a). Change of correspondence address (or Change of Correspondence Address form FTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form FTO/SB/47 Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			Legie adme or a single trim individual as a memore a region of the single trim individual as a memore a region of the single trim individual as a memore a 2 registered of not of single trim individual as a gents. If no name is listed, no name will be printed.					
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	s SMALL ENTITY state	as. See 37 CFR 1.27.					ITY status. See 37 CF	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other the Office.	nan th	ne applicant; a regist	ered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No			
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WENDEROTH, LIND & PONACK L.L.P.			
	ART UNIT	PAPER NUMBER	
Suite 400 East Washington, DC 20005-1503			
	. Koji Akiyama	6 Koji Akiyama 2006.0050A EXAM ACK L/L/P. GERULLO,	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 506 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 506 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/566,156	AKIYAMA ET AL.				
Examiner	Art Unit				
LILIANA CERLILLO	2629				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPE 1.

 ☐ This communication is responsive to 9/01/2009.
- 2. The allowed claim(s) is/are 1 and 2.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - Depart No./Mail Date _____.

 (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08),
 Paper No./Mail Date _____
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- /L. C./

- 5. Notice of Informal Patent Application
- Interview Summery (PTO-413).
 Paper No./Mail Date
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

Examiner, Art Unit 2629

Application/Control Number: 10/566,156

Art Unit: 2629

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/28/2009 has been entered.

Allowable Subject Matter

Claims 1-2 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, the prior art of record does not disclose:

a first aging period where voltage is applied alternately and continuously to the
scan electrodes and the sustain electrodes, along with application of a voltage for
suppressing a first self-erase discharge only when the scan electrodes carry a voltage
higher than the sustain electrodes,

in combination with.

a second aging period where voltage is applied alternately and continuously to the scan electrodes and the sustain electrodes, along with application of a voltage for suppressing a second self-erase discharge only when the sustain electrodes carry a voltage higher than the sustain electrodes.

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Please note that the examiner interpreted the first and second aging periods as two different periods, each requiring application of voltages alternately and continuously to the scan and the sustain electrodes, and therefore each aging period needs to have at least two voltage pulses, one applied to the scan and one to the sustain, alternately.

JP2004-273441 (which corresponds to US 7,338,337) teaches and aging method for plasma displays (US 7,338,337 col. 1 lines 5-7) where a voltage is applied for suppressing a self erase discharge (JP2004-273441, see V2 of Figs. 3) when the sustain or the scan electrodes voltages are high (as shown); but fails to teach a first aging period where the voltage is applied alternately and continuously and applying this suppressing voltage only when the scan electrodes have a high voltage, or a second aging period where the voltage is applied alternately and continuously and applying the suppressing voltage only when the sustain electrodes have a high voltage as described in the claim 1. Please note that as explained above, the examiner interpreted the first and second aging periods each requiring application of voltages alternately and continuously to the scan and the sustain electrodes, and therefore, the portion when the scan electrode is high (JP2004-273441, see V2 of Fig. 3a) and the portion when the sustain electrode is high (JP2004-273441, see V2 of Fig. 3b) cannot be considered each an aging period, because each portion lacks the alternate and continuous application of voltages to both scan and sustain electrodes.

JP2004-273441 also teaches in a different embodiment, a voltage applied to the address electrode for suppressing a self erase discharge (JP2004-273441, Fig. 7C) only when the scan electrode is high (JP2004-273441, Fig. 7A), which would

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correspond to the first aging period of the instant application. However, JP2004-273441 is silent regarding application of a discharge for suppressing a self erase discharge only when the sustain electrode is high; nor is there a motivation to include a second aging period as described in the instant claim 1.

Finally, Fujitsu in JP-09-251841 also teach a voltage applied to the address electrode for suppressing a self erase discharge (Fig. 4, waveform A per para. 38 and 21 of the machine translation) when the scan electrode is high (Fig. 4, waveform X) and when the sustain electrode is high (Fig. 4, waveform Y). However, as explained above, the examiner interpreted the first and second aging periods each requiring application of voltages alternately and continuously to the scan and the sustain electrodes, and therefore, the portion when the scan electrode is high, and the portion when the sustain electrode is high cannot be considered each an aging period, because each portion lacks the alternate and continuous application of voltages to both scan and sustain electrodes.

Nor does any other prior art discloses this feature.

The dependent claim 2 is allowed for at least the same reason indicated above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LILIANA CERULLO whose telephone number is (571)270-5882. The examiner can normally be reached on Monday to Thursday 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on 571-272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. C./ Examiner, Art Unit 2629

/Amr Awad/ Supervisory Patent Examiner, Art Unit 2629